

372018

- 58 -

ABSTRACT OF THE DISCLOSURE

A fiber optic module includes a connector connected to a mother board of a host computer, an LD semiconductor IC for converting serial data received from the mother board to an LD electric signal for a laser diode, an LD module for converting the LD electric signal to an LD optical signal, a PD module for converting a photodiode optical signal to a PD electric signal, a PD semiconductor IC for converting the PD electric signal to PD serial data, a circuit board having the connector and carrying LD semiconductor IC and PD semiconductor IC, an LD shielding plate and a PD shielding plate for electrically shielding the LD module and the PD module, respectively, a first frame and a second frame for holding the circuit board, LD module and PD module. In the fiber optic module, the connector is of a surface mounting type, leads of the LD and PD modules are connected to a side of the circuit board mounted with the connector, the circuit board has an LD variable resistor for adjusting a drive current of the LD module, the LD variable resistor is provided to a side of the circuit board opposite to the connector, the circuit board has a PD variable resistor provided to the side of the circuit board opposite to the connector for detecting a signal of the PD module, 3 signal processing semiconductor ICs or less are provided. ~~An outline configuration of the circuit board measures 17mm through 25.4mm wide and 30mm through 50mm long, the outline~~

JN
JN
JN

~~3N dimensions of the fiber optic module are 19mm through~~
~~3N 25.4mm wide, 45mm through 65mm high and 9mm through~~
~~3N 25.4mm high. The second frame is provided with pawls~~
~~3N for coupling of the optical signal, the first frame is~~
~~3N provided with projections for protecting the pawls, the~~
~~3N first and second frames are made of resin material and~~
~~3N have mechanisms of a snap-fit type for holding the~~
~~3N circuit board, a tipmost end of the circuit board is~~
~~3N held by the first and second frames, the first frame has~~
~~3N an arm, a recess provided to the arm is used to hold at~~
~~3N least one rear part of the circuit board, and the data~~
~~3N transmission rate of the optical signal is 200 Mbits/s~~
~~3N or more.~~